

Industrial Dual Bed Deionizers

Capacity: 11 to 43 GPM

DM-6100

SERIES

Engineered for large-sized deionization (DI) applications, these dependable units feature precised electronics and performance characteristics, using diaphragm valves package. Applications cover the full spectrum of industrial, medical, electronics manufacturing, boiler feed water and chemical manufacturing uses.

Standard Features

- FRP tank with 150 psi rating / corrosion resistance
- Auto regeneration on preset water quality limit
- High quality IX resin
- Constant monitoring of water quality
- Solid-state reliability for trouble-free service
- No untreated by-pass water
- Automatic shut down in the event of power failure
- Compact, non-corrosive components
- Digital stager with resistivity monitor
- Convenient, modular construction
- Noryl diaphragm valves
- Programmable purge prior to regeneration
- 120V/1ph/60Hz power requirement
- 1/4" tubing between stager and valves
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Flow control
- Divert
- Flow meter
- Drum suction pipe

Available Options

- Duplex, triplex or multi units
- Skid mounted, plumbed and wired
- PLC control system
- ASME coded tanks
- Butterfly control valves
- 240V/1ph/50Hz power requirement
- Recirculation pumps
- Unistrut channel supports

Applications

- | | | |
|---------------|------------------------------|--------------------------------|
| • Paints | • Electrodeposition | • Printing |
| • Chemicals | • Metalworking lubricants | • Boiler feed |
| • Cosmetics | • Washes - cars to aircrafts | • Film processing |
| • Electronics | • Humidification control | • Hospitals and medical |
| • Textiles | • Testing and materials | • Horticulture and greenhouse |
| • Plating | • Research and development | • Food and beverage processing |
| • Ice Plants | • Glassware rinse | • Ink and dye manufacturing |



 **PURE AQUA, INC.**[®]

Water Treatment & Reverse Osmosis Systems

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Pure Aqua, Inc. is a global leading manufacturer of industrial water deionization systems designed for efficient removal of dissolved salts and minerals. These water treatment systems produce high purity water for industrial applications. We also design and manufacture a complete line of ion selective resin deionization systems to remove selective ions such as nitrates, arsenic, silica, boron, fluoride or to meet your water quality requirements.

System Features

- Two-Bed Automatic “Package” Deionizers are available in sizes from 11-43 GPM, and at rated exchange capacities of 200,000 to 800,000 grains. These systems are fully-assembled, with all wiring and tubing completed requiring minimum installation and start-up effort. Skid mounting is an option.
- Exchanger vessels are all non metallic construction, rated at 150 psi.
- Piping is Schedule 80 PVC, with solvent-welded joints, rigidly supported on unit strut channels.
- Valves-Noryl diaphragm type, pneumatically operated, with integral travel stops for flow regulation.
- Internal distributions are PP / schedule 80 PVC and radial lateral design.
- The provided cation resin is a high capacity strong acid, bead-form, conventional gel polystyrene sulfonated exchange resin which is shipped in the hydrogen form ready for immediate use. Resin capacity information is based on 6 lbs. of HCL per cu. ft. of exchange resin. The provided anion is a high capacity strong base, type 2, bead form, conventional gel exchange resin which is shipped in the chloride form for maximum storage life. Resin capacity information is based on 6 lbs. of NaOH per cu. ft. of exchange resin.
- Optional stainless steel liquid filled pressure gauges, sample valves, flow indicator on water inlet, and inlet pressure reducing valve.

Model #	Nominal Capacity (Grains)	Service Flow (GPM)		Pipe Size	Mineral Tank Size	Resin Quantity (ft ³)		Shipping Weight (lbs)
		Cont.	Peak			Cation	Anion	
DM24-Q-FRP	200,000	11	35	2"	24"x72"	10	10	2,100
DM30-Q-FRP	300,000	17	50	2"	30"x72"	15	15	2,900
DM36-Q-FRP	400,000	25	70	2"	36"x72"	20	20	4,800
DM42-Q-FRP	600,000	34	100	3"	42"x72"	30	30	6,600
DM48-Q-FRP	800,000	43	135	3"	48"x72"	40	40	8,500

Pure Aqua offers a wide range of IX systems and resin types for general manufacturing and industrial applications, as well as special grades of resin for critical applications such as food & beverage, nitrate removal, arsenic removal, healthcare, biopharmaceutical and microelectronics.

Pre-Treatment Systems:

- Multi-media filter
- Ultrafiltration system
- Activated carbon filter
- Reverse osmosis system

Post-Treatment Systems

- Mixed bed deionization
- UV sterilization
- Ozonation system
- Activated carbon filter

Other Systems

- Neutralization system
- Distribution system
- Degasifiers

 <p>PURE AQUA, INC.[®] Water Treatment & Reverse Osmosis Systems sales@pureaqua.com Tel: +1.714.432.9996 www.pureaqua.com Fax: +1.714.432.9898</p>  	<p>Authorized Dealer:</p>
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